

Title (en)
AUTOMATED SYSTEM AND METHOD FOR EVALUATION AND REPORT OF TRAUMA TO ORGANS OF PASSENGERS IN A VEHICULAR CRASH

Title (de)
AUTOMATISIERTES SYSTEM UND VERFAHREN ZUR BEURTEILUNG UND MELDUNG VON ORGANVERLETZUNGEN VON PASSAGIEREN EINES FAHRZEUGUNFALLS

Title (fr)
SYSTÈME ET PROCÉDÉ AUTOMATISÉS D'ÉVALUATION ET DE RAPPORT DE TRAUMATISME À DES ORGANES DE PASSAGERS DANS UN ACCIDENT DE VÉHICULE

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Abstract (en)
[origin: WO2019049134A1] The present invention relates to a system and method for evaluating and reporting trauma suffered by organs of one or more passengers in a vehicular crash to an emergency management client computer, automatically and in real time. An aspect of the invention relates to steps for improving accuracy of an algorithm for trauma report accuracy, by optimization or training, as the system receives feedback comprising an aggregation of medical examination reports (made by medical personnel such as a physician) of injured passengers processed by the system. In an exemplary embodiment, the method comprises steps of 1) taking readings of in- vehicle sensors during a car accident; 2) wirelessly transmitting the readings to a server; 3) classifying a type of crash; 4) computing forces exerted on an organ of a passenger in the vehicle; 5) assessing trauma to the organ, as a function of the forces and published medical data; 7) sending a trauma assessment report to an emergency management client; 8) receiving a medical examination report of the passenger from a medical information client; and 9) optimizing the trauma assessment function against an aggregation of medical examination reports and associated computed forces.

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Citation (search report)

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